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The **structure** and **function** of gamma c-dependent cytokines and receptors: regulation of T lymphocyte development and homeostasis.

YV He, TR Malek - Critical reviews in immunology, 1998 - ncbi.nlm.nih.gov

1: Crit Rev Immunol. 1998;18(6):503-24. The **structure** and **function** of gamma c-dependent cytokines and receptors ... Five cytokines, IL-2, IL-4, IL-7, IL-9, and IL-15, form one group that is characterized by utilizing the **common gamma chain** (gamma c) as a receptor subunit. ...

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Jak3-independent trafficking of the **common {gamma} chain** receptor subunit: chaperone **function** of Jaks revisited

SP Hoffmann, AQ Lam, S Frank, YJ Zhou, ... - ... and cellular biology, 2004 - Am Soc Microbiol

... with c in living cells appears to be a very sensitive indicator of proper Jak **structure**. ... regulation of c and Jak3 will be important given the critical in vivo **functions** of both ... The amino terminus of JAK3 is necessary and sufficient for binding to the **common gamma chain** and confers ...

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... IL-13 bind to a shared heterodimeric complex on endothelial cells mediating vascular cell adhesion molecule-1 induction in the absence of the **common gamma chain**

B Schnyder, S Lugli, N Feng, H Etter, RA ... - ..., 1996 - bloodjournal.hematologylibrary.org

... Therefore, the subunit **structure** of the functional receptors for IL-4 and IL-13 on human endothelial cells does not use or require the common γ of the IL ... with the 130-kD IL4R and enhances its affinity with the ligand. IL-4 and IL-13 have remarkably similar **functions** on dif ...

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Blocking the **common {gamma}-chain** of cytokine receptors induces T cell apoptosis and long-term islet allograft survival

XC Li, A Ima, Y Li, XX Zheng, TR Malek, ... - The Journal of ..., 2000 - Am Assoc Immunol

... complex can bind IL-2 but cannot initiate signaling events, and, therefore, this **structure** is often ... Expression and **function** of the subunit of the IL-2, IL-4, and IL-7 ... Strom, and XC Li Islet Allograft Rejection in Nonobese Diabetic Mice Involves the **Common {gamma}-Chain** and CD28 ...

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The **common [gamma]-chain** for multiple cytokine receptors

K Sugamura, H Asao, M Kondo, N Tanaka, N ... - Advances in ..., 1995 - Elsevier

... **Structure** and **Function** of IL-2 Receptor Subunits 227-111. Sharing of IL-2R γ among Multiple Cytokine Receptors 238-IV. Causative Relationship between IL-2R γ Mutations and Human XSCID 246-V. Signal Transduction Initiated by the Receptors Sharing the γ -Chain 253-VI. ...

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Molecular cloning of a novel type 1 cytokine receptor similar to the **common gamma chain**

K Fujio, T Nosaka, T Kojima, T ... - ..., 2000 - bloodjournal.hematologylibrary.org

... Molecular cloning of a novel type 1 cytokine receptor similar to the **common gamma chain**. ... View larger version (3622K): [in this window] [in a new window]. Fig 4. **Structure** of chimeric ... We next examined the **function** of the cytoplasmic domain of 1; chimeric receptors between 1 ...

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Structure, function, and targeting of interleukin 4 receptors on human head and neck cancer cells

K Kawakami, P Leland, RK Puri - Cancer research, 2000 - AACR

... Experimental Therapeutics. **Structure, Function, and Targeting** of Interleukin 4 Receptors on Human Head and Neck Cancer Cells. ... However, IL-4R **structure, function, and** cytotoxic activity of IL-4 toxin in SCCHN have not been investigated. ...

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Structure of the Quaternary Complex of Interleukin-2 with Its {alpha},{beta}, and {gamma} c Receptors

X Wang, M Rickert, KC Garcia - Science's STKE, 2005 - stke.sciencemag.org

... that acts through a quaternary receptor signaling complex containing alpha (IL-2R α), beta (IL-2R β), and **common gamma chain** (γ c ... IL-4, IL-7, IL-9, IL-15, and IL-21, c forms degenerate contacts with IL-2. The **structure** of c provides a rationale for loss-of-**function** mutations found ...

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Stable and functional lymphoid reconstitution of common cytokine receptor gamma chain deficient mice by retroviral-mediated gene transfer

C Soudais, T Shiho, U Sharara, D Guy- ... - ..., 2000 - bloodjournal.hematologylibrary.org

... Phenotype and **function** of peripheral lymphocytes from c-transduced mice. ... B-cell responses in c-transduced animals. To assess B-cell **function** in c-transduced mice, we first analyzed steady-state circulating plasma immunoglobulin levels in animals >8 weeks posttransplant. ...

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The interleukin-4 receptor activates STAT5 by a mechanism that relies upon **common gamma-chain**


A Lischke, R Moriggl, S Brandlein, S Borchardt, ... - Journal of Biological ..., 1998 - ASBMB

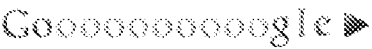
... substrate), phosphatidylinositol 3-kinase, STAT6, and probably other proteins generate a network

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of protein-protein contacts mediated by interactions between phosphotyrosines and Src homology 2 domains (9). Despite **structure-function** studies by several laboratories (10-16 ...

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